PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

	(PC1 Ancie 36	and Rule 70)	
Applicant's or agent's file reference OPP041891KR	FOR FURTHER ACT	TION	See Form PCT/IPEA/416
International application No. PCT/KR2004/001861	International filing date(a 23 JULY 2004 (23.0	07.2004)	Priority date (day/month/year) 23 JULY 2003 (23.07.2003)
International Patent Classification (IPC) IPC7 H04L 12/28	or national classification a	nd IPC	
Applicant KT Corporation et al			
Authority under Article 35 and tra	ansmitted to the applicant a	ccording to Article 36.	The state of the s
 This REPORT consists of a total This report is also accompanied to a. (sent to the applicant and 			
sheets of the des	cription, claims and/or drav	vings which have been	amended and are the basis for this report (see Rule 70.16 and Section 607 of the
beyond the disclosured by the disclosured by the supplemental Book by the supplemental	osure in the international ap ix. Il Bureau only) a total of (in	plication as filed, as ind adicate type and number thereto, in computer reac	table form only, as indicated in the
This report contains indications re Box No. I Basis of the		ns:	
Box No. II Priority	-		
Box No. III Non-establ	ishment of opinion with reg	gard to novelty, inventiv	e step and industrial applicability
)	ity of invention		
Box No. V Reasoned citations an	statement under Article 35(d explanations supporting s	2) with regard to novelt such statement	y, inventive step or industrial applicability;
	cuments cited		
	ects in the international app		
Box No. VIII Certain obs	servations on the internation	nal application	
Date of submission of the demand		Date of completion of	this report
23 FEBRUARY 2005	5 (23.02.2005)	22 JULY 200	5 (22.07.2005)
Name and mailing address of the IPEA		Authorized officer	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/001861

Bo:	k No.]	Basis of the report
1.	With	regard to the language, this report is based on the international application in the language in which it was filed, unless rwise indicated under this item.
	\boxtimes	This report is based on translations from the original language into the following languageEnglish
		which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
•		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
		international promining oxidination (under Rules 55.2 and of 55.5)
2.	to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not seed to this report):
	\boxtimes	the international application as originally filed/furnished
	\Box	the description:
		pages as originally filed/furnished
		pages* received by this Authority on
	•	pages* received by this Authority on
	<u> </u>	the claims:
٠		pagesas originally filed/furnished
••		pages* as amended (together with any statment) under Article 19
٠	٠.	pages* received by this Authority on
		pages* received by this Authority on
		the drawings:
		pagesas originally filed/furnished
		pages*received by this Authority on
		pages*received by this Authority on
3.		the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets
		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been
		made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box
		(Rule 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets
l		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
l		
_	76 24	ad amplica come and the first state of the s
•	ıj uen	n 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/001861

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims	1 ~ 17	* ***
Hovely (14)			YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1~17	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1~17	YE
	Claims	NONE	NO

Citations and explanations (Rule 70.7)

Reference is made to the following documents

D1.: KR 1020010064740 A (KT Corp.) 11 July 2001

D2 ; WO 00/72623 A2(Inc Integrated Network Co.) 30 Nov 2000

D3: EP 0849890

A2(Globalstar L.P.) 24 Jun 1998

The current invention discloses an wireless internet access repeater and the method which comprising first transceiver for communication with wireless internet access through first communication mode, second transceiver for communication with user terminal through second communication mode, MAC transformation administrator for formatting first communication mode to second communication mode.

D1 discloses a method of detecting a shadow area in a radio communication system by multimedia signal which is capable of detecting shadow area in the cell. But D1 does not disclose the characteristic in current invention wherein the interference between signals with same frequency is eliminated by using the different communication modes.

D2 discloses a local access system with variety of interchangeable resource modules under the control of a management unit over common bus to provide a flexible interface for various network communication services. But D2 is for interfacing different network communication services, not for accessing the shadow area in the network.

D3 discloses satellite communication system comprising at least one low earth orbit first satellite, at least one second satellite, ground segment with plurality of user transceivers. But D3 is only for satellite communication system which does not disclose characteristic of accessing the shadow area in the network.

The current invention therefore appears to satisfy the novelty, inventive step and industrial applicability criteria of PCT Article 33(2)(3)(4).